

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
11 August 2005 (11.08.2005)

PCT

(10) International Publication Number  
**WO 2005/074102 A1**

(51) International Patent Classification<sup>7</sup>: H02K 5/24, 5/22

(21) International Application Number:

PCT/AU2005/000089

(22) International Filing Date: 28 January 2005 (28.01.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2004900349 28 January 2004 (28.01.2004) AU

(71) Applicant (for all designated States except US):  
SCHEFENACKER VISION SYSTEMS AUSTRALIA PTY LTD [AU/AU]; Sheriffs Road, Lonsdale, S.A. 5160 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): OLIJNYK, Mark,

Leonid [AU/AU]; 4 Carina Street, Hallet Cove, S.A. 5158 (AU). FLYNN, Daniel, Joseph [AU/AU]; 29 Alexander Avenue, Morphett Vale, S.A. 5162 (AU).

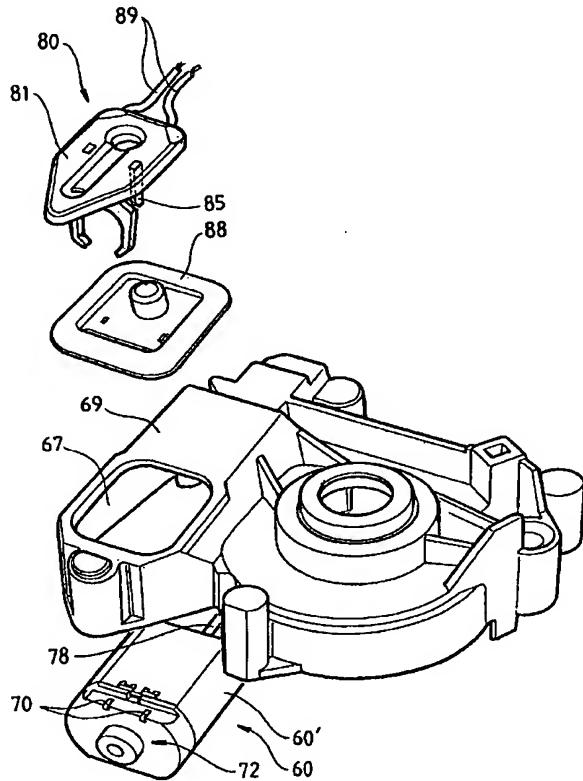
(74) Agent: MADDERNS; Level 1, 64 Hindmarsh Square, Adelaide, S.A. 5000 (AU).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: ELECTRICAL CONNECTOR FOR A SMALL ELECTRIC MOTOR



(57) Abstract: A small electric motor and motor housing assembly comprising: a small electric motor body (60') having a pair of spaced apart sockets (70) for receiving and frictionally engaging spaced apart parallel electrical power supply terminals (85, 86); a moulded plastic housing (69) housing the motor (60), the housing (69) defining an aperture (67) over the sockets (70); a connector body (81); a pair of spaced apart parallel electrical terminals (85, 86) extending outwards from the connector body (81) and receivable by the sockets (70); a motor body gripping portion extending from the connector body (81), the gripping portion mechanically latched to the motor body (60') thereby substantially preventing relative movement between the terminals (85, 86) and the sockets (70); a resilient member (88) mounted between the connector body (81) and the housing (69), the resilient member (88) allowing relative movement between the connector body (81) and the housing (69) while the motor (60) moves relative to the housing (69) under varying loads.

WO 2005/074102 A1